

Exhibit 1

In response to Sections 101.105(c)(4) and 101.147(b) of the Commission's Rules, Applicant submits the following:

- (1) The operating area of the master and remote stations will be defined by a radius of 35 miles about the geographic coordinates specified in the application;
- (2) Operation will be on subchannels with center frequencies offset from the stated center frequency of a standard 12.5 kHz or 25.0 kHz bandwidth channel by a maximum of 3125 Hz for a 12.5 kHz channel, and 9375 Hz for a 25.0 kHz channel;
- (3) In order to control interference to co-channel users, the aggregate power flux density produced on any master or remote subchannel in the proposed system to any point at or beyond 45 miles from the center of operation will not exceed $-100 \text{ dB(W/m}^2\text{)}$; and
- (4) The proposed master stations will serve a minimum of four separate active remote stations.



Industrial Telecommunications Association, Inc.

August 5, 1999

Mr. Steve Divney
CN WAN Corporation
125 Shoreway Road
San Carlos CA 94070

RE: Applicant: CN Frequency (MSP), Inc.
 Master Site: Fargo, ND
 Frequency (MHz): 952/928.08750 MHz
 Latitude: 46-52-10 N
 Longitude: 096-48-43 W
 Configuration: FXO

Dear Mr. Divney:

In accordance with Section 101.103 of the FCC Rules and Regulations, we have performed a frequency engineering analysis for the Multiple Address System (MAS) radio facilities reference above per your request.

The results of this process, shown on page two, indicate that the station-to-station engineering criteria identified in FCC Rules and Regulations, Section 101.105(c)(3), have been satisfied with respect to all previously applied for and granted MAS systems. As a supplement, we have provided a "Frequency Use Analysis - Supplement Showing" identifying all applicants and/or licensees within a 200 miles radius of your proposed master site.

The FCC considers MAS applications on a first-come, first served basis. Therefore, ITA can not guarantee that the Commission will ultimately license the channels recommended. We do not recommend the purchasing of transmitter equipment prior to FCC authorization. When you file your application with the FCC, both pages should be attached to your application. If you have any questions on this particular coordination, please feel free to contact me at (703) 528-5115.

Sincerely,

Ronald G. Franklin
Director, Spectrum
Operations and Analysis

Enclosure
System No. 070337-01-17

CICS

Council of Independent
Communication Suppliers

TELFAC

Telephone Maintenance Frequency
Advisory Committee

TLCC

Taxicab and Livery
Communications Council

☆ **USMSS**

Internet: info@ita-relay.com • <http://www.ita-relay.com>

Main Office: 1110 North Glebe Road • Suite 500 • Arlington, Virginia 22201-5720 • (703) 528-5115 • Fax (703) 524-1074
Branch Office: 1270 Fairfield Road • Suite 33 • Gettysburg, Pennsylvania 17325 • (717) 334-0537 • Fax (717) 334-9602



**FCC Rules and Regulations, Sections 101.103 and 101.105(c) (3)
Frequency Use Analysis - Supplemental Showing**

Search Radius: 200 miles
Run Date: August 5, 1999
Applicant Name: CN Frequency (MSP), Inc.
Master Station Location: Fargo, ND
Frequency (MHz): 952/928.08750 MHz
Latitude: 46-52-10 N
Longitude: 096-48-43 W
Configuration: FXO
Antennas Height (feet): 20 Feet
Ground Elevation (feet): Varies
Effective Radiated Power (dBm): 46.0 dBm
Emission: 1K20D1D

Co-Channel User Data

08/05/99 14:45		-----TRANSMITTER----			CALL	EXP	
FREQUENCY	SORT NAME	CITY	ST	DIST	SIGN	CLASS UNITS	DATE
01 952.08125	ALEXANDRIA LAKE	ALEXANDRIA	MN	97.7	WNTL996	FXO	1 01/02
02 952.08750	CN FREQUENCY (MS	FARGO	ND		PENDING	FXO	1 08/99
03 952.08750	CN FREQUENCY (MS	THOMPSON	ND	65.9	PENDING	FXO	1 08/99
04 952.09375	CN FREQUENCY (MS	ALBANY	MN	137.1	PENDING	FXO	1 08/99
05 952.09375	LAKEHEAD PIPE LI	DEER RIVER	MN	147.2	WNTY854	FXO	1 06/00
06 952.09375	CN FREQUENCY (MSP	MILACA	MN	165.5	WPND228	FXO	1 07/08
07 952.09375	CN FREQUENCY (MSP	BUFFALO	MN	187.7	WPNH236	FXO	1 07/08
08 952.09375	CN FREQUENCY (MSP	WATERTOWN	MN	194.2	WPNH235	FXO	1 07/08

CICSCouncil of Independent
Communication Suppliers**TELFAC**Telephone Maintenance Frequency
Advisory Committee**TLCC**Taxicab and Livery
Communications Council☆ **USMSS**Internet: info@ita-relay.com • <http://www.ita-relay.com>

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CellNet Data Systems, Inc.
and Subsidiary Companies
125 Shoreway Road
San Carlos, CA 94070

Drawn on
Wells Fargo Texas Bank
Plano, Texas

88-963
1119

10013354

PAYMENT DATE 07/27/1999	PAY THIS AMOUNT \$ *****320.00*	VOID 6 MONTHS FROM CHECK DATE
-----------------------------------	---	--------------------------------------

THREE HUNDRED TWENTY USD and 00/100

PAY TO THE ORDER OF

FEDERAL COMMUNICATIONS
COMMISSION

- DC 00000

A handwritten signature in black ink, appearing to be "J. M. Smith", written over the signature line.

TWO SIGNATURES REQUIRED IF GREATER THAN \$25,000

⑈10013354⑈ ⑆111909634⑆ 4759627094⑈

READ INSTRUCTIONS CAREFULLY BEFORE PROCEEDING		FEDERAL COMMUNICATIONS COMMISSION REMITTANCE ADVICE		APPROVED BY OMB 3060-0589	
(1) LOCKBOX # 358130		PAGE NO. 1 OF 1		<div style="border: 1px solid black; padding: 2px;">SPECIAL USE</div> <div style="border: 1px solid black; padding: 2px;">FCC USE ONLY</div>	
SECTION A - PAYER INFORMATION					
(2) PAYER NAME (if paying by credit card, enter name exactly as it appears on your card) CellNet Data Systems, Inc.				(3) TOTAL AMOUNT PAID (dollars and cents) \$ 320.00	
(4) STREET ADDRESS LINE NO. 1 125 Shoreway Road					
(5) STREET ADDRESS LINE NO. 2					
(6) CITY San Carlos			(7) STATE CA		(8) ZIP CODE 94070
(9) DAYTIME TELEPHONE NUMBER (include area code) 650.508.6000			(10) COUNTRY CODE (if not in U.S.A.)		
IF PAYER NAME AND THE APPLICANT NAME ARE DIFFERENT, COMPLETE SECTION B IF MORE THAN ONE APPLICANT, USE CONTINUATION SHEETS (FORM 159-C)					
SECTION B - APPLICANT INFORMATION					
(11) APPLICANT NAME (if paying by credit card, enter name exactly as it appears on your card) CN FREQUENCY (MSP), INC.					
(12) STREET ADDRESS LINE NO. 1 125 Shoreway Road					
(13) STREET ADDRESS LINE NO. 2					
(14) CITY San Carlos			(15) STATE CA		(16) ZIP CODE 94070
(17) DAYTIME TELEPHONE NUMBER (include area code) 650.508.6000			(18) COUNTRY CODE (if not in U.S.A.)		
COMPLETE SECTION C FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEETS (FORM 159-C)					
SECTION C - PAYMENT INFORMATION					
(19A) FCC CALL SIGN/OTHER ID		(20A) PAYMENT TYPE CODE (PTC) P E O R		(21A) QUANTITY 1	
(22A) FEE DUE FOR (PTC) IN BLOCK 20A \$ 320.00				FCC USE ONLY	
(23A) FCC CODE 1				(24A) FCC CODE 2	
(19B) FCC CALL SIGN/OTHER ID		(20B) PAYMENT TYPE CODE (PTC)		(21B) QUANTITY	
(22B) FEE DUE FOR (PTC) IN BLOCK 20B \$				FCC USE ONLY	
(23B) FCC CODE 1				(24B) FCC CODE 2	
(19C) FCC CALL SIGN/OTHER ID		(20C) PAYMENT TYPE CODE (PTC)		(21C) QUANTITY	
(22C) FEE DUE FOR (PTC) IN BLOCK 20C \$				FCC USE ONLY	
(23C) FCC CODE 1				(24C) FCC CODE 2	
(19D) FCC CALL SIGN/OTHER ID		(20D) PAYMENT TYPE CODE (PTC)		(21D) QUANTITY	
(22D) FEE DUE FOR (PTC) IN BLOCK 20D \$				FCC USE ONLY	
(23D) FCC CODE 1				(24D) FCC CODE 2	
SECTION D - TAXPAYER INFORMATION (REQUIRED)					
(25) PAYER TIN 0 9 4 2 9 5 1 0 9 6					
(26) COMPLETE THIS BLOCK ONLY IF APPLICANT NAME IN B-11 IS DIFFERENT FROM PAYER NAME IN A-3 APPLICANT TIN 0 9 4 3 2 2 9 1 5 2					
SECTION E - CERTIFICATION					
(27) CERTIFICATION STATEMENT I, <u>N/A (Not Regulatory Fee Payment)</u> , Certify under penalty of perjury that the foregoing and supporting information (PRINT NAME) are true and correct to the best of my knowledge, information and belief. SIGNATURE _____					
SECTION F - CREDIT CARD PAYMENT INFORMATION					
(28) MASTERCARD VISA ACCOUNT NUMBER: _____ EXPIRATION DATE: _____ MONTH YEAR					
I hereby authorize the FCC to charge my VISA or MASTERCARD _____ AUTHORIZED SIGNATURE _____ DATE _____ for the service(s)/authorizations(s) herein described.					

WILKINSON BARKER KNAUER, LLP

Washington, DC
Frankfurt, Germany

2300 N Street, NW
Washington, DC 20037-1128

telephone: 202.783.4141
facsimile: 202.783.5851
www.wbklaw.com

August 17, 1999

Federal Communications Commission
Microwave Service
P.O. Box 358130
Pittsburgh, PA 15251-5250

c/o Wholesale Lockbox Shift Supervisor
Mellon Bank, Three Mellon Bank Center
525 William Penn Way, 27th Floor, Rm. 153-2713
Pittsburgh, Pennsylvania 15259-0001

Re: CN Frequency (MSP), Inc.
Application for New MAS Station in Albany, Minnesota

Dear Sir/Madam:

CN Frequency (MSP), Inc. ("Applicant"), by its attorneys, hereby submits for filing an original and one copy of an FCC Form 415 application for a new MAS station in Albany, Minnesota, at 952/928.09375 MHz. The application is accompanied by a Form 159 and a check made payable to the Federal Communications Commission in the amount of \$320.00 for the prescribed filing fee (Fee Code PEOR).

Applicant notes that its parent company, CellNet Data Systems, Inc., is simultaneously filing a "Petition for Expedited Relief from MAS Application Freeze Limited to a Single Customer Commitment," a copy of which is attached. Therefore, Applicant requests that the Commission process the subject application in light of the pending petition, notwithstanding the application freeze imposed in WT Docket Number 97-81.¹

¹ *Amendment of the Commission's Rules Regarding Multiple Address Systems, WT Docket No. 97-81, Further Notice of Proposed Rule Making and Order, FCC 99-101 (rel. July 1, 1999) ("MAS Further Notice").*

Applicant notes that its use of the subject MAS station will be for private, internal communications, and no "subscriber-based" services will be offered. Further, we note that Applicant holds licenses to operate co-channel MAS facilities within the 90 mile separation criteria for fixed MAS transmitters referenced in Section 101.105(c)(3)(i) of the Commission's rules. By this application, Applicant seeks to short-space itself on the same frequency pair at the proposed location in order to expand its coverage area.

Should you have any questions regarding this application, please contact the undersigned.

Sincerely,

WILKINSON BARKER KNAUER, LLP

A handwritten signature in black ink, appearing to read "Jeffrey S. Cohen". The signature is fluid and cursive, with the first name "Jeffrey" being more prominent.

By: Jeffrey S. Cohen
Ray M. Rothermel Jr.

Enclosures

FCC 415 Main Form	FEDERAL COMMUNICATIONS COMMISSION	Approved by OMB 3060-0747 Expires 12/31/99 Est. Avg. Burden Hours Per Response: 7 hrs.	FCC Use Only (File Number)
Application for Authorization in the Microwave Services Parts 74 and 101			FEE Use Only

FILING FEE

(a) Fee Type Code	(b) Fee Multiple	(c) Fee Due for Fee Type Code in (a)	(d) Total Amount Due	FEE Use Only
PEOR	1	\$ 320.00	\$ 320.00	

APPLICANT

1. Legal Name of Applicant CN FREQUENCY (MSP), INC.		2. Voice Telephone Number (650) 508-6000	
3. Assumed Name Used for Doing Business (if any)		4. Fax Telephone Number (650) 592-6858	
5. Mailing Address, Street or P.O. Box 125 Shoreway Road ATTENTION: Ben H. Lyon			
6. City San Carlos		7. State CA	8. Zip Code 94070
9. E-mail or Internet Address		10. Taxpayer Identification Number 94-3229152	
11. Name of Contact Representative (if other than applicant) Jeffrey S. Cohen		12. Voice Telephone Number (202) 783-4141	
13. Contact Representative Firm or Company Name Wilkinson Barker Knauer, LLP		14. Fax Telephone Number (202) 783-5851	
15. Mailing Address, Street or P.O. Box 2300 N Street, N. W.			
16. City Washington		17. State D.C.	18. Zip Code 20037-1128

CLASSIFICATION OF FILING

19. Type of Applicant			(C) Individual Partnership Corporation Unincorporated Association Governmental Entity
20. Does applicant qualify as a Non-Commercial Educational Broadcaster?			(N) Yes No
21. If this filing is an Amendment to a pending application: File number of pending application:		Receipt Date:	22. Eligibility Rule Section 90.35
			23. Service Type Code MAS
24. Does this filing propose a waiver or exception to the Commission's Rules? If "yes", attach exhibit explaining circumstances.			(N) Yes No See Attached Petition
25. Does this filing pose potential interference to Geostationary Satellite Operation? If "yes", attach exhibit explaining circumstances.			(N) Yes No
26. Is notification to the National Radio Astronomy Observatory required? If "Yes", provide date of notification:			(N) Yes No
27. If this filing is in reference to an existing station at the same location, give the call sign. If this filing is for a Transfer of Control or Assignment of Authorization, list all call signs to be transferred or assigned:			

ADMINISTRATIVE INFORMATION

28. The purpose of this filing is to: <div style="text-align: center; font-size: 1.5em; font-weight: bold;">(A)</div> Enter one or more letters that correctly describes the purpose of this filing.	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center; font-weight: bold;">A</td> <td>request an initial authorization for a new station (all)</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">B</td> <td>request authorization for modification of an existing licensed station (all)</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">C</td> <td>request authorization for a minor modification (Private and Common Carrier)</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">D</td> <td>request authorization to renew an existing licensed station (all)</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">E</td> <td>request authorization to reinstate an expired licensed station (all)</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">F</td> <td>request a full assignment of a radio station authorization (Private)</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">G</td> <td>request authorization of a developmental station (Private and Common Carrier)</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">H</td> <td>request authorization for transfer of control (Private)</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">I</td> <td>request authorization to convert from Private to Common Carrier (Common Carrier)</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">J</td> <td>request amendment to a pending application (all)</td> </tr> </table>	A	request an initial authorization for a new station (all)	B	request authorization for modification of an existing licensed station (all)	C	request authorization for a minor modification (Private and Common Carrier)	D	request authorization to renew an existing licensed station (all)	E	request authorization to reinstate an expired licensed station (all)	F	request a full assignment of a radio station authorization (Private)	G	request authorization of a developmental station (Private and Common Carrier)	H	request authorization for transfer of control (Private)	I	request authorization to convert from Private to Common Carrier (Common Carrier)	J	request amendment to a pending application (all)
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F	request a full assignment of a radio station authorization (Private)																				
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H	request authorization for transfer of control (Private)																				
I	request authorization to convert from Private to Common Carrier (Common Carrier)																				
J	request amendment to a pending application (all)																				
29. If this filing is for modification of an existing licensed station, or is for a partial assignment of authorization, specifically describe changes requested.																					
30. Number of associated applications filed as a system	31. FCC File Numbers of associated applications filed as a system, if known																				
32. Type of MAS Operation (T, S, U) See Exhibit 1	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><u>Two</u>-way master-remote</td> <td style="width: 50%;"><u>Mobile</u> meter reader</td> </tr> <tr> <td><u>One</u>-way outbound</td> <td><u>Sub</u>frequency operation</td> </tr> <tr> <td><u>One</u>-way <u>I</u>nbound</td> <td><u>Multiple</u> master operation</td> </tr> </table> </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> 33. Requested Authorization Expiration Date <div style="display: flex; justify-content: space-between;"> Month Day </div> </td> </tr> </table>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><u>Two</u>-way master-remote</td> <td style="width: 50%;"><u>Mobile</u> meter reader</td> </tr> <tr> <td><u>One</u>-way outbound</td> <td><u>Sub</u>frequency operation</td> </tr> <tr> <td><u>One</u>-way <u>I</u>nbound</td> <td><u>Multiple</u> master operation</td> </tr> </table>	<u>Two</u> -way master-remote	<u>Mobile</u> meter reader	<u>One</u> -way outbound	<u>Sub</u> frequency operation	<u>One</u> -way <u>I</u> nbound	<u>Multiple</u> master operation	33. Requested Authorization Expiration Date <div style="display: flex; justify-content: space-between;"> Month Day </div>												
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<u>One</u> -way <u>I</u> nbound	<u>Multiple</u> master operation																				

POINT OF CONTACT FOR TECHNICAL OPERATIONS

34. Mailing address street or geographical description Ben H. Lyon, 125 Shoreway Road	35. Voice Telephone Number (650) 508-6000		
36. City San Carlos	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">37. State CA</td> <td style="width: 70%;">38. Zip code 94070</td> </tr> </table>	37. State CA	38. Zip code 94070
37. State CA	38. Zip code 94070		

BROADCAST AUXILIARY APPLICANTS

39. Name of Broadcast Auxiliary frequency coordinator	40. Voice Telephone Number ()
41. Call Sign of associated Broadcast Station, if any	42. Radio Service Code of associated Broadcast Station

TRANSFER OF CONTROL APPLICANTS

43. Is this a pro forma Transfer of Control?	() <u>Yes</u> <u>No</u>		
44. Is each station named in item 27 of this filing constructed and operational?	() <u>Yes</u> <u>No</u>		
45. Name of Transferee			
46. Transferee's Mailing Address, Street			
47. City	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">48. State</td> <td style="width: 70%;">49. Zip code</td> </tr> </table>	48. State	49. Zip code
48. State	49. Zip code		

ENVIRONMENTAL POLICY

50. Would a Commission grant of any proposal in this application or amendment have a significant environmental effect as defined by 47 CFR 1.1307? (N) Yes No
 * If "yes", attach environmental assessment as required by 47 CFR 1.1308 and 47 CFR 1.1311.

FOREIGN GOVERNMENT REPRESENTATION

51. Is the applicant a foreign government or the representative of any foreign government? (N) Yes No

COMMON CARRIER APPLICANTS - ALIEN OWNERSHIP

52. Is the applicant an alien or the representative of an alien? () Yes No
53. Is the applicant a corporation organized under the laws of any foreign government? () Yes No
54. Is the applicant a corporation of which any officer or director is an alien or of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? () Yes No
55. Is the applicant a corporation directly or indirectly controlled by any other corporation of which any officer or more than one-fourth of the directors are aliens, or of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? () Yes No
 * If "yes", attach exhibit explaining nature and extent of alien or foreign ownership or control.

*If yes, attach exhibit explaining circumstances.

BASIC QUALIFICATIONS

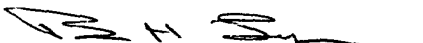
(To be completed by Private Operational Fixed and Common Carrier applicants only.)

56. Has the applicant or any party to this application or amendment had any FCC station authorization, license or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license, construction permit denied by the Commission? (N) Yes No
57. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? (N) Yes No
58. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? (N) Yes No
59. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? (N) Yes No
60. Is this a Common Carrier corporation? (N) Yes No
 If "Yes", attach exhibit showing names, addresses and citizenship of those stockholders owning of record and/or voting 10 percent or more of the filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the applicant as well as any controlling corporations. If this information is currently up to date and on file with the Commission, this additional exhibit is not required with this filing.

* If "yes", attach exhibit explaining circumstances.

CERTIFICATION

The APPLICANT waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that neither the applicant nor any other party to the application* is subject to a denial of Federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C., Section 862, because of a conviction for possession or distribution of a controlled substance. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.
 *See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

- | | |
|--|------------------------------------|
| 61. Typed Name of Person Signing
BEN H. LYON | 62. Title
VICE PRESIDENT |
| 63. Signature
 | 64. Date
8/16/99 |

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES
Transmit Site Data

A1. Action requested (<u>N</u>) <u>New Site</u> <u>Modify</u>	A2. Station class <u>FXO</u>	A3. Site name <u>Albany, MN</u>
A4. Service area or SMSA		

TRANSMIT LOCATION

FIXED POINT, TEMPORARY, OR MOBILE

A5. Street address or other geographic description of fixed location <u>various locations within a 35 mile radius</u>		
A6. City <u>Albany</u>		
A7. County <u>Stearns</u>		
A8. State <u>Minnesota</u>	A9. Ground elevation AMSL (feet) <u>varies</u>	A10. Overall height of antenna structure (feet) <u>20</u>
A11. Latitude (DD-MM-SS.S) <u>45</u> ° <u>37</u> ' <u>54</u> "	A12. Longitude (DDD-MM-SS.S) <u>094</u> ° <u>34</u> ' <u>28</u> "	A13. North American Datum (NAD) <u>(2)</u> <u>27</u> <u>83</u>
A14. Maximum Latitude (DD-MM-SS.S) <u> </u> ° <u> </u> ' <u> </u> "	A15. Maximum Longitude (DDD-MM-SS.S) <u> </u> ° <u> </u> ' <u> </u> "	A16. Temporary or Mobile Radius of Operation (miles)
A17. Wide area operations () <u>Nationwide</u> <u>Continental United States</u>		

TRANSMIT ANTENNA STRUCTURE INFORMATION

A18. If antenna will be mounted on an antenna structure which has been registered with the Commission, give the seven digit Registration Number. ()	
IF REGISTRATION NUMBER IS ENTERED IN ITEM A 18, DO NOT COMPLETE ITEMS A 19 - 23.	
A19. Has the owner of the antenna structure filed an FCC Form 854, Application for Antenna Structure Registration with the Commission ? <u>(N)</u> <u>Yes</u> <u>No</u>	
A20. If Yes, give date FCC Form 854 was filed with the Commission.	Month () Year ()
A21. Give the Figure Number that best describes your antenna arrangement .	(<u>1</u>) <u>1</u> <u>2</u> <u>3</u>
A22. Give the type of antenna structure on which your antenna will be mounted. <u>pole</u>	
A23. Give the height of the antenna supporting structure, shown in feet. <u>20</u>	

FCC**415**

Schedule B

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Frequency Data

B1. Transmit Site (45-37-54) Latitude (094-34-28) Longitude

B2. Path Number (1) of this filing.

MASTER**TRANSMITTER****EXISTING FREQUENCY DATA****PROPOSED FREQUENCY DATA**

B3. Frequency (MHz)		952.09375
Additional Frequency (MHz)		SEE EXHIBIT 1
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
B4. Emission Designator		12K5D1D / 1K20D1D
Additional Emission Designator		SEE EXHIBIT 1
Additional Emission Designator		
Additional Emission Designator		
B5. Tx Manufacturer		CellNet Data Systems, Inc.
B6. Tx Type Acceptance Number		H6N-CCM-92-STD
B7. Tolerance (%)		0.0001
B8. Tx Power Output watts		5 WATTS
B9. Baseband Signal Type		DIG
B10. Maximum Channel Capacity		2400 bits/second
B11. Digital Modulation Rate		1200 Hz
B12. Digital Modulation Type		9QPR
B13. Effective Isotropic Radiated Power (dBm)		46
B14. Automatic Transmitter Power Control?	() Yes No	(N) Yes No
B15. Tx Line Loss (dB)		Varies
B16. Receiver Line Loss (dB)		Varies
B17. Median Receiver Signal Level (dBm)		-84

**FCC
415**

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Schedule C

Path Data

C1. Purpose of filing (A) Add new Path Delete Path Modify Path No Changes to Existing Path Data

C2. Transmit site (45-37-54) Latitude (094-34-28) Longitude C3. Path Number (1) of this filing.

MASTER

TRANSMIT ANTENNA

EXISTING PATH DATA

PROPOSED PATH DATA

C4. Height to center of final radiating element (ft)		varies
C5. Antenna manufacturer		varies
C6. Antenna model number		varies
C7. Antenna gain		10 dBi
C8. Beamwidth (degrees)		360
C9. Polarization		H/V
C10. Azimuth to Rx site or passive repeater		varies
C11. Elevation angle		varies
C12. Diversity Tx antenna height (ft)		
C13. Diversity Tx antenna manufacturer		
C14. Diversity Tx antenna model number		
C15. Diversity Tx antenna gain		
C16. Diversity Tx beamwidth (degrees)		
C17. Tx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C18. Tx periscope reflector separation (ft)		

FINAL RECEIVER

EXISTING PATH DATA

PROPOSED PATH DATA

C19. Receiver site name		
C20. Call Sign		
C21. Latitude		varies
C22. Longitude		varies
C23. Ground elevation (ft)		varies
C24. Does path include a passive repeater?	() <u>Yes</u> <u>No</u>	(<u>N</u>) <u>Yes</u> <u>No</u>
C25. Height to center of Rx antenna (ft)		varies
C26. Rx antenna manufacturer		varies
C27. Rx antenna model number		varies
C28. Rx antenna gain		12.2/5.2 dBi
C29. Diversity Rx antenna height		
C30. Diversity Rx antenna manufacturer		
C31. Diversity Rx antenna model number		
C32. Diversity Rx antenna gain		
C33. Rx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C34. Rx periscope reflector separation		

FCC

415

Schedule B

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Frequency Data

B1. Transmit Site (45-37-54) Latitude (094-34-28) Longitude	B2. Path Number (2) of this filing.
---	---------------------------------------

REMOTES

TRANSMITTER

EXISTING FREQUENCY DATA

PROPOSED FREQUENCY DATA

B3. Frequency (MHz)		928.09375
Additional Frequency (MHz)		SEE EXHIBIT 1
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
B4. Emission Designator		12K5D1D / 1K20D1D
Additional Emission Designator		SEE EXHIBIT 1
Additional Emission Designator		
Additional Emission Designator		
B5. Tx Manufacturer		CellNet Data Systems, Inc.
B6. Tx Type Acceptance Number		H6N-CRR-96-STD
B7. Tolerance (%)		0.0001
B8. Tx Power Output watts		1 WATT
B9. Baseband Signal Type		DIG
B10. Maximum Channel Capacity		2400 bits/second
B11. Digital Modulation Rate		1200 Hz
B12. Digital Modulation Type		9QPR
B13. Effective Isotropic Radiated Power (dBm)		41
B14. Automatic Transmitter Power Control?	() Yes No	(N) Yes No
B15. Tx Line Loss (dB)		Varies
B16. Receiver Line Loss (dB)		Varies
B17. Median Receiver Signal Level (dBm)		-70.7

**FCC
415****APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES**

Schedule C

Path DataC1. Purpose of filing (A) Add new Path Delete Path Modify Path No Changes to Existing Path DataC2. Transmit site (45-37-54) Latitude (094-34-28) LongitudeC3. Path Number (2) of this filing.**REMOTES****TRANSMIT ANTENNA****EXISTING PATH DATA****PROPOSED PATH DATA**

C4. Height to center of final radiating element (ft)		varies
C5. Antenna manufacturer		varies
C6. Antenna model number		varies
C7. Antenna gain		12.2/5.2 dBi
C8. Beamwidth (degrees)		54/360
C9. Polarization		H/V
C10. Azimuth to Rx site or passive repeater		varies
C11. Elevation angle		varies
C12. Diversity Tx antenna height (ft)		
C13. Diversity Tx antenna manufacturer		
C14. Diversity Tx antenna model number		
C15. Diversity Tx antenna gain		
C16. Diversity Tx beamwidth (degrees)		
C17. Tx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C18. Tx periscope reflector separation (ft)		

FINAL RECEIVER**EXISTING PATH DATA****PROPOSED PATH DATA**

C19. Receiver site name		
C20. Call Sign		
C21. Latitude		varies
C22. Longitude		varies
C23. Ground elevation (ft)		varies
C24. Does path include a passive repeater?	() <u>Yes</u> <u>No</u>	(<u>N</u>) <u>Yes</u> <u>No</u>
C25. Height to center of Rx antenna (ft)		varies
C26. Rx antenna manufacturer		varies
C27. Rx antenna model number		varies
C28. Rx antenna gain		10 dBi
C29. Diversity Rx antenna height		
C30. Diversity Rx antenna manufacturer		
C31. Diversity Rx antenna model number		
C32. Diversity Rx antenna gain		
C33. Rx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C34. Rx periscope reflector separation		

Exhibit 1

In response to Sections 101.105(c)(4) and 101.147(b) of the Commission's Rules, Applicant submits the following:

- (1) The operating area of the master and remote stations will be defined by a radius of 35 miles about the geographic coordinates specified in the application;
- (2) Operation will be on subchannels with center frequencies offset from the stated center frequency of a standard 12.5 kHz or 25.0 kHz bandwidth channel by a maximum of 3125 Hz for a 12.5 kHz channel, and 9375 Hz for a 25.0 kHz channel;
- (3) In order to control interference to co-channel users, the aggregate power flux density produced on any master or remote subchannel in the proposed system to any point at or beyond 45 miles from the center of operation will not exceed $-100 \text{ dB(W/m}^2\text{)}$; and
- (4) The proposed master stations will serve a minimum of four separate active remote stations.



Industrial Telecommunications Association, Inc.

August 5, 1999

Mr. Steve Divney
CN WAN Corporation
125 Shoreway Road
San Carlos CA 94070

RE: Applicant: CN Frequency (MSP), Inc.
 Master Site: Albany, MN
 Frequency (MHz): 952/928.09375 MHz
 Latitude: 45-37-54 N
 Longitude: 094-34-28 W
 Configuration: FXO

Dear Mr. Divney:

In accordance with Section 101.103 of the FCC Rules and Regulations, we have performed a frequency engineering analysis for the Multiple Address System (MAS) radio facilities reference above per your request.

The results of this process, shown on page two, indicate that the station-to-station engineering criteria identified in FCC Rules and Regulations, Section 101.105(c)(3), have been satisfied with respect to all previously applied for and granted MAS systems. As a supplement, we have provided a "Frequency Use Analysis - Supplement Showing" identifying all applicants and/or licensees within a 200 miles radius of your proposed master site.

The FCC considers MAS applications on a first-come, first served basis. Therefore, ITA can not guarantee that the Commission will ultimately license the channels recommended. We do not recommend the purchasing of transmitter equipment prior to FCC authorization. When you file your application with the FCC, both pages should be attached to your application. If you have any questions on this particular coordination, please feel free to contact me at (703) 528-5115.

Sincerely,

Ronald G. Franklin
Director, Spectrum
Operations and Analysis

Enclosure
System No. 070337-01-15

CICS

Council of Independent
Communication Suppliers

TELFAC

Telephone Maintenance Frequency
Advisory Committee

TLCC

Taxicab and Livery
Communications Council

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Internet: info@ita-relay.com • <http://www.ita-relay.com>

Main Office: 1110 North Glebe Road • Suite 500 • Arlington, Virginia 22201-5720 • (703) 528-5115 • Fax (703) 524-1074

Branch Office: 1270 Fairfield Road • Suite 33 • Gettysburg, Pennsylvania 17325 • (717) 334-0537 • Fax (717) 334-9602



Industrial Telecommunications Association, Inc.

**FCC Rules and Regulations, Sections 101.103 and 101.105(c) (3)
Frequency Use Analysis - Supplemental Showing**

Search Radius: 200 miles
Run Date: August 5, 1999
Applicant Name: CN Frequency (MSP), Inc.
Master Station Location: Albany, MN
Frequency (MHz): 952/928.09375 MHz
Latitude: 45-37-54 N
Longitude: 094-34-28 W
Configuration: FXO
Antennas Height(feet): 20 Feet
Ground Elevation(feet): Varies
Effective Radiated Power (dBm): 46.0 dBm
Emission: 1K20D1D

Co-Channel User Data

08/05/99 14:47		----TRANSMITTER----			CALL	EXP	
FREQUENCY	SORT NAME	CITY	ST	DIST	SIGN	CLASS UNTS	DATE
01 952.08750	CN FREQUENCY (MS FARGO		ND	137.1	PENDING	FXO 1	08/99
02 952.08750	CN FREQUENCY (MS THOMPSON		ND	193.0	PENDING	FXO 1	08/99
03 952.09375	CN FREQUENCY (MS ALBANY		MN		PENDING	FXO 1	08/99
04 952.09375	CN FREQUENCY (MSP MILACA		MN	50.5	WPND228	FXO 1	07/08
05 952.09375	CN FREQUENCY (MSP BUFFALO		MN	50.6	WPNH236	FXO 1	07/08
06 952.09375	CN FREQUENCY (MSP WATERTOWN		MN	58.1	WPNH235	FXO 1	07/08
07 952.09375	CN FREQUENCY (MSP NORWOOD		MN	69.6	WPNH234	FXO 1	07/08
08 952.09375	CN FREQUENCY (MSP EAST BETHEL		MN	76.3	WPNH232	FXO 1	07/08
09 952.09375	CN FREQUENCY (MSP MINNEAPOLIS		MN	79.2	WPJF434	FXO 1	06/01
10 952.09375	CN FREQUENCY (MSP RANDOLPH		MN	103.2	WPNH231	FXO 1	07/08
11 952.09375	CN FREQUENCY (MS MANKATO		MN	104.5	PENDING	FXO 1	08/99
12 952.09375	LAKEHEAD PIPE LI DEER RIVER		MN	123.1	WNTY854	FXO 1	06/00
13 952.09375	CN FREQUENCY (MS SHELL LAKE		WI	127.5	PENDING	FXO 1	07/99
14 952.09375	CN FREQUENCY (MS RUSK		WI	144.6	PENDING	FXO 1	07/99
15 952.09375	CN FREQUENCY (MSP WINONA		MN	172.8	WPND232	FXO 1	07/08



Council of Independent
Communication Suppliers



Telephone Maintenance Frequency
Advisory Committee



Taxicab and Livery
Communications Council



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CellNet Data Systems, Inc.

and Subsidiary Companies

125 Shoreway Road

San Carlos, CA 94070

Drawn on
Wells Fargo Texas Bank
Piano, Texas

88-963
TTT9

10013355

PAYMENT DATE
07/27/1999

PAY THIS AMOUNT
\$ *****320.00*

VOID 6
MONTHS
FROM
CHECK
DATE

THREE HUNDRED TWENTY USD and 00/100

PAY TO THE ORDER OF

FEDERAL COMMUNICATIONS
COMMISSION

- DC 00000

TWO SIGNATURES REQUIRED IF GREATER THAN \$25,000

⑈10013355⑈ ⑆111909634⑆ 4759627094⑈

WILKINSON BARKER KNAUER, LLP

Washington, DC
Frankfurt, Germany

2300 N Street, NW
Washington, DC 20037-1128

telephone: 202.783.4141
facsimile: 202.783.5851
www.wbklaw.com

August 17, 1999

Federal Communications Commission
Microwave Service
P.O. Box 358130
Pittsburgh, PA 15251-5250

c/o Wholesale Lockbox Shift Supervisor
Mellon Bank, Three Mellon Bank Center
525 William Penn Way, 27th Floor, Rm. 153-2713
Pittsburgh, Pennsylvania 15259-0001

Re: CN Frequency (MSP), Inc.
Application for New MAS Station in Mankato, North Dakota

Dear Sir/Madam:

CN Frequency (MSP), Inc. ("Applicant"), by its attorneys, hereby submits for filing an original and one copy of an FCC Form 415 application for a new MAS station in Mankato, North Dakota, at 952/928.09375 MHz. The application is accompanied by a Form 159 and a check made payable to the Federal Communications Commission in the amount of \$320.00 for the prescribed filing fee (Fee Code PEOR).

Applicant notes that its parent company, CellNet Data Systems, Inc., is simultaneously filing a "Petition for Expedited Relief from MAS Application Freeze Limited to a Single Customer Commitment," a copy of which is attached. Therefore, Applicant requests that the Commission process the subject application in light of the pending petition, notwithstanding the application freeze imposed in WT Docket Number 97-81.¹

¹ *Amendment of the Commission's Rules Regarding Multiple Address Systems*, WT Docket No. 97-81, *Further Notice of Proposed Rule Making and Order*, FCC 99-101 (rel. July 1, 1999) ("MAS Further Notice").

Applicant notes that its use of the subject MAS station will be for private, internal communications, and no "subscriber-based" services will be offered. Further, we note that Applicant holds licenses to operate co-channel MAS facilities within the 90 mile separation criteria for fixed MAS transmitters referenced in Section 101.105(c)(3)(i) of the Commission's rules. By this application, Applicant seeks to short-space itself on the same frequency pair at the proposed location in order to expand its coverage area.

Should you have any questions regarding this application, please contact the undersigned.

Sincerely,

WILKINSON BARKER KNAUER, LLP

A handwritten signature in black ink, appearing to read "Jeffrey S. Cohen". The signature is written in a cursive, flowing style.

By: Jeffrey S. Cohen
Ray M. Rothermel Jr.

Enclosures

ADMINISTRATIVE INFORMATION

28. The purpose of this filing is to: <div style="text-align: center; font-size: 1.5em; margin: 10px 0;">(A)</div> Enter one or more letters that correctly describes the purpose of this filing.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; text-align: center;">A</td><td>request an initial authorization for a new station (all)</td></tr> <tr><td style="text-align: center;">B</td><td>request authorization for modification of an existing licensed station (all)</td></tr> <tr><td style="text-align: center;">C</td><td>request authorization for a minor modification (Private and Common Carrier)</td></tr> <tr><td style="text-align: center;">D</td><td>request authorization to renew an existing licensed station (all)</td></tr> <tr><td style="text-align: center;">E</td><td>request authorization to reinstate an expired licensed station (all)</td></tr> <tr><td style="text-align: center;">F</td><td>request a full assignment of a radio station authorization (Private)</td></tr> <tr><td style="text-align: center;">G</td><td>request authorization of a developmental station (Private and Common Carrier)</td></tr> <tr><td style="text-align: center;">H</td><td>request authorization for transfer of control (Private)</td></tr> <tr><td style="text-align: center;">I</td><td>request authorization to convert from Private to Common Carrier (Common Carrier)</td></tr> <tr><td style="text-align: center;">J</td><td>request amendment to a pending application (all)</td></tr> </table>	A	request an initial authorization for a new station (all)	B	request authorization for modification of an existing licensed station (all)	C	request authorization for a minor modification (Private and Common Carrier)	D	request authorization to renew an existing licensed station (all)	E	request authorization to reinstate an expired licensed station (all)	F	request a full assignment of a radio station authorization (Private)	G	request authorization of a developmental station (Private and Common Carrier)	H	request authorization for transfer of control (Private)	I	request authorization to convert from Private to Common Carrier (Common Carrier)	J	request amendment to a pending application (all)
A	request an initial authorization for a new station (all)																				
B	request authorization for modification of an existing licensed station (all)																				
C	request authorization for a minor modification (Private and Common Carrier)																				
D	request authorization to renew an existing licensed station (all)																				
E	request authorization to reinstate an expired licensed station (all)																				
F	request a full assignment of a radio station authorization (Private)																				
G	request authorization of a developmental station (Private and Common Carrier)																				
H	request authorization for transfer of control (Private)																				
I	request authorization to convert from Private to Common Carrier (Common Carrier)																				
J	request amendment to a pending application (all)																				
29. If this filing is for modification of an existing licensed station, or is for a partial assignment of authorization, specifically describe changes requested.																					
30. Number of associated applications filed as a system	31. FCC File Numbers of associated applications filed as a system, if known																				
32. Type of MAS Operation (T, S, U) See Exhibit 1	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <u>Two-way master-remote</u> <u>One-way outbound</u> <u>One-way Inbound</u> </td> <td style="width: 50%; vertical-align: top;"> <u>Mobile meter reader</u> <u>Subfrequency operation</u> <u>Multiple master operation</u> </td> </tr> </table>	<u>Two-way master-remote</u> <u>One-way outbound</u> <u>One-way Inbound</u>	<u>Mobile meter reader</u> <u>Subfrequency operation</u> <u>Multiple master operation</u>																		
<u>Two-way master-remote</u> <u>One-way outbound</u> <u>One-way Inbound</u>	<u>Mobile meter reader</u> <u>Subfrequency operation</u> <u>Multiple master operation</u>																				
33. Requested Authorization Expiration Date <div style="display: flex; justify-content: space-between;"> Month Day </div>																					

POINT OF CONTACT FOR TECHNICAL OPERATIONS

34. Mailing address street or geographical description Ben H. Lyon, 125 Shoreway Road	35. Voice Telephone Number (650) 508-6000
36. City San Carlos	37. State CA
38. Zip code 94070	

BROADCAST AUXILIARY APPLICANTS

39. Name of Broadcast Auxiliary frequency coordinator	40. Voice Telephone Number ()
41. Call Sign of associated Broadcast Station, if any	42. Radio Service Code of associated Broadcast Station

TRANSFER OF CONTROL APPLICANTS

43. Is this a pro forma Transfer of Control?	() <u>Yes</u> <u>No</u>
44. Is each station named in item 27 of this filing constructed and operational?	() <u>Yes</u> <u>No</u>
45. Name of Transferee	
46. Transferee's Mailing Address, Street	
47. City	48. State
49. Zip code	

ENVIRONMENTAL POLICY

50. Would a Commission grant of any proposal in this application or amendment have a significant environmental effect as defined by 47 CFR 1.1307? • If "yes", attach environmental assessment as required by 47 CFR 1.1308 and 47 CFR 1.1311.	(N) Yes No
---	--------------

FOREIGN GOVERNMENT REPRESENTATION

51. Is the applicant a foreign government or the representative of any foreign government?	(N) Yes No
--	--------------

COMMON CARRIER APPLICANTS - ALIEN OWNERSHIP

52. Is the applicant an alien or the representative of an alien?*	() Yes No
53. Is the applicant a corporation organized under the laws of any foreign government?*	() Yes No
54. Is the applicant a corporation of which any officer or director is an alien or of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?*	() Yes No
55. Is the applicant a corporation directly or indirectly controlled by any other corporation of which any officer or more than one-fourth of the directors are aliens, or of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? • If "yes", attach exhibit explaining nature and extent of alien or foreign ownership or control.	() Yes No

*If yes, attach exhibit explaining circumstances.

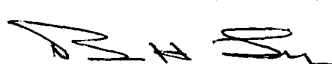
BASIC QUALIFICATIONS

(To be completed by Private Operational Fixed and Common Carrier applicants only.)

56. Has the applicant or any party to this application or amendment had any FCC station authorization, license or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license, construction permit denied by the Commission?*	(N) Yes No
57. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court?*	(N) Yes No
58. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition?*	(N) Yes No
59. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items?*	(N) Yes No
60. Is this a Common Carrier corporation? If "Yes", attach exhibit showing names, addresses and citizenship of those stockholders owning of record and/or voting 10 percent or more of the filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the applicant as well as any controlling corporations. If this information is currently up to date and on file with the Commission, this additional exhibit is not required with this filing.	(N) Yes No

* If "yes", attach exhibit explaining circumstances.

CERTIFICATION

The APPLICANT waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that neither the applicant nor any other party to the application* is subject to a denial of Federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C., Section 862, because of a conviction for possession or distribution of a controlled substance. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith. *See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	
61. Typed Name of Person Signing BEN H. LYON	62. Title VICE PRESIDENT
63. Signature 	64. Date 8/16/99
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

FCC
415
Schedule A

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES
Transmit Site Data

A1. Action requested (<u>N</u>) <u>New Site</u> <u>Modify</u>	A2. Station class <u>FXO</u>	A3. Site name <u>Mankato, MN</u>
A4. Service area or SMSA		

TRANSMIT LOCATION

FIXED POINT, TEMPORARY, OR MOBILE

A5. Street address or other geographic description of fixed location <u>various locations within a 35 mile radius</u>		
A6. City <u>Mankato</u>		
A7. County <u>Blue Earth</u>		
A8. State <u>Minnesota</u>	A9. Ground elevation AMSL (feet) <u>varies</u>	A10. Overall height of antenna structure (feet) <u>20</u>
A11. Latitude (DD-MM-SS.S) <u>44</u> ° <u>09</u> ' <u>50</u> "	A12. Longitude (DDD-MM-SS.S) <u>094</u> ° <u>03</u> ' <u>05</u> "	A13. North American Datum (NAD) <u>(2) 27 83</u>
A14. Maximum Latitude (DD-MM-SS.S) ____ ° ____ ' ____ "	A15. Maximum Longitude (DDD-MM-SS.S) ____ ° ____ ' ____ "	A16. Temporary or Mobile Radius of Operation (miles)
A17. Wide area operations <u>()</u> <u>Nationwide</u> <u>Continental United States</u>		

TRANSMIT ANTENNA STRUCTURE INFORMATION

A18. If antenna will be mounted on an antenna structure which has been registered with the Commission, give the seven digit Registration Number. ()	
IF REGISTRATION NUMBER IS ENTERED IN ITEM A 18, DO NOT COMPLETE ITEMS A 19 - 23.	
A19. Has the owner of the antenna structure filed an FCC Form 854, Application for Antenna Structure Registration with the Commission ? (<u>N</u>) <u>Yes</u> <u>No</u>	
A20. If Yes, give date FCC Form 854 was filed with the Commission.	Month () Year ()
A21. Give the Figure Number that best describes your antenna arrangement . (<u>1</u>) <u>1</u> <u>2</u> <u>3</u>	
A22. Give the type of antenna structure on which your antenna will be mounted. <u>pole</u>	
A23. Give the height of the antenna supporting structure, shown in feet. <u>20</u>	

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Schedule B

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Frequency Data

B1. Transmit Site (44-09-50) Latitude (094-03-05) Longitude

B2. Path Number (1) of this filing.

MASTER**TRANSMITTER****EXISTING FREQUENCY DATA****PROPOSED FREQUENCY DATA**

B3. Frequency (MHz)	--	952.09375
Additional Frequency (MHz)		SEE EXHIBIT 1
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
B4. Emission Designator		12K5D1D / 1K20D1D
Additional Emission Designator		SEE EXHIBIT 1
Additional Emission Designator		
Additional Emission Designator		
B5. Tx Manufacturer		CellNet Data Systems, Inc.
B6. Tx Type Acceptance Number		H6N-CCM-92-STD
B7. Tolerance (%)		0.0001
B8. Tx Power Output watts		5 WATTS
B9. Baseband Signal Type		DIG
B10. Maximum Channel Capacity		2400 bits/second
B11. Digital Modulation Rate		1200 Hz
B12. Digital Modulation Type		9QPR
B13. Effective Isotropic Radiated Power (dBm)		46
B14. Automatic Transmitter Power Control?	() <u>Yes</u> <u>No</u>	(N) <u>Yes</u> <u>No</u>
B15. Tx Line Loss (dB)		Varies
B16. Receiver Line Loss (dB)		Varies
B17. Median Receiver Signal Level (dBm)		-84

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APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Schedule C

Path DataC1. Purpose of filing (A) Add new Path Delete Path Modify Path No Changes to Existing Path Data

C2. Transmit site (44-09-50) Latitude (094-03-05) Longitude C3. Path Number (1) of this filing.

MASTER

TRANSMIT ANTENNA	EXISTING PATH DATA	PROPOSED PATH DATA
C4. Height to center of final radiating element (ft)		varies
C5. Antenna manufacturer		varies
C6. Antenna model number		varies
C7. Antenna gain		10 dBi
C8. Beamwidth (degrees)		360
C9. Polarization		H/V
C10. Azimuth to Rx site or passive repeater		varies
C11. Elevation angle		varies
C12. Diversity Tx antenna height (ft)		
C13. Diversity Tx antenna manufacturer		
C14. Diversity Tx antenna model number		
C15. Diversity Tx antenna gain		
C16. Diversity Tx beamwidth (degrees)		
C17. Tx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C18. Tx periscope reflector separation (ft)		

FINAL RECEIVER	EXISTING PATH DATA	PROPOSED PATH DATA
C19. Receiver site name		
C20. Call Sign		
C21. Latitude		varies
C22. Longitude		varies
C23. Ground elevation (ft)		varies
C24. Does path include a passive repeater?	() <u>Yes</u> <u>No</u>	(<u>N</u>) <u>Yes</u> <u>No</u>
C25. Height to center of Rx antenna (ft)		varies
C26. Rx antenna manufacturer		varies
C27. Rx antenna model number		varies
C28. Rx antenna gain		12.2/5.2 dBi
C29. Diversity Rx antenna height		
C30. Diversity Rx antenna manufacturer		
C31. Diversity Rx antenna model number		
C32. Diversity Rx antenna gain		
C33. Rx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C34. Rx periscope reflector separation		

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415**

Schedule B

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Frequency Data

B1. Transmit Site (44-09-50) Latitude (094-03-05) Longitude	B2. Path Number (2) of this filing.
---	---------------------------------------

REMOTES

TRANSMITTER	EXISTING FREQUENCY DATA	PROPOSED FREQUENCY DATA
B3. Frequency (MHz)		928.09375
Additional Frequency (MHz)		SEE EXHIBIT 1
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
Additional Frequency (MHz)		
B4. Emission Designator		12K5D1D / 1K20D1D
Additional Emission Designator		SEE EXHIBIT 1
Additional Emission Designator		
Additional Emission Designator		
B5. Tx Manufacturer		CellNet Data Systems, Inc.
B6. Tx Type Acceptance Number		H6N-CRR-96-STD
B7. Tolerance (%)		0.0001
B8. Tx Power Output watts		1 WATT
B9. Baseband Signal Type		DIG
B10. Maximum Channel Capacity		2400 bits/second
B11. Digital Modulation Rate		1200 Hz
B12. Digital Modulation Type		9QPR
B13. Effective Isotropic Radiated Power (dBm)		41
B14. Automatic Transmitter Power Control?	() Yes No	(N) Yes No
B15. Tx Line Loss (dB)		Varies
B16. Receiver Line Loss (dB)		Varies
B17. Median Receiver Signal Level (dBm)		-70.7

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APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Schedule C

Path DataC1. Purpose of filing (A) Add new Path Delete Path Modify Path No Changes to Existing Path DataC2. Transmit site (44-09-50) Latitude (094-03-05) LongitudeC3. Path Number (2) of this filing.**REMOTES**

TRANSMIT ANTENNA	EXISTING PATH DATA	PROPOSED PATH DATA
C4. Height to center of final radiating element (ft)		varies
C5. Antenna manufacturer		varies
C6. Antenna model number		varies
C7. Antenna gain		12.2/5.2 dBi
C8. Beamwidth (degrees)		54/360
C9. Polarization		H/V
C10. Azimuth to Rx site or passive repeater		varies
C11. Elevation angle		varies
C12. Diversity Tx antenna height (ft)		
C13. Diversity Tx antenna manufacturer		
C14. Diversity Tx antenna model number		
C15. Diversity Tx antenna gain		
C16. Diversity Tx beamwidth (degrees)		
C17. Tx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C18. Tx periscope reflector separation (ft)		

FINAL RECEIVER	EXISTING PATH DATA	PROPOSED PATH DATA
C19. Receiver site name		
C20. Call Sign		
C21. Latitude		varies
C22. Longitude		varies
C23. Ground elevation (ft)		varies
C24. Does path include a passive repeater?	() <u>Yes</u> <u>No</u>	(<u>N</u>) <u>Yes</u> <u>No</u>
C25. Height to center of Rx antenna (ft)		varies
C26. Rx antenna manufacturer		varies
C27. Rx antenna model number		varies
C28. Rx antenna gain		10 dBi
C29. Diversity Rx antenna height		
C30. Diversity Rx antenna manufacturer		
C31. Diversity Rx antenna model number		
C32. Diversity Rx antenna gain		
C33. Rx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C34. Rx periscope reflector separation		

Exhibit 1

In response to Sections 101.105(c)(4) and 101.147(b) of the Commission's Rules, Applicant submits the following:

- (1) The operating area of the master and remote stations will be defined by a radius of 35 miles about the geographic coordinates specified in the application;
- (2) Operation will be on subchannels with center frequencies offset from the stated center frequency of a standard 12.5 kHz or 25.0 kHz bandwidth channel by a maximum of 3125 Hz for a 12.5 kHz channel, and 9375 Hz for a 25.0 kHz channel;
- (3) In order to control interference to co-channel users, the aggregate power flux density produced on any master or remote subchannel in the proposed system to any point at or beyond 45 miles from the center of operation will not exceed $-100 \text{ dB(W/m}^2\text{)}$; and
- (4) The proposed master stations will serve a minimum of four separate active remote stations.



Industrial Telecommunications Association, Inc.

August 5, 1999

Mr. Steve Divney
CN WAN Corporation
125 Shoreway Road
San Carlos CA 94070

RE: Applicant: CN Frequency (MSP), Inc.
 Master Site: Mankato, MN
 Frequency (MHz): 952/928.09375 MHz
 Latitude: 44-09-50 N
 Longitude: 094-03-05 W
 Configuration: FXO

Dear Mr. Divney:

In accordance with Section 101.103 of the FCC Rules and Regulations, we have performed a frequency engineering analysis for the Multiple Address System (MAS) radio facilities reference above per your request.

The results of this process, shown on page two, indicate that the station-to-station engineering criteria identified in FCC Rules and Regulations, Section 101.105(c)(3), have been satisfied with respect to all previously applied for and granted MAS systems. As a supplement, we have provided a "Frequency Use Analysis - Supplement Showing" identifying all applicants and/or licensees within a 200 miles radius of your proposed master site.

The FCC considers MAS applications on a first-come, first served basis. Therefore, ITA can not guarantee that the Commission will ultimately license the channels recommended. We do not recommend the purchasing of transmitter equipment prior to FCC authorization. When you file your application with the FCC, both pages should be attached to your application. If you have any questions on this particular coordination, please feel free to contact me at (703) 528-5115.

Sincerely,

Ronald G. Franklin
Director, Spectrum
Operations and Analysis

Enclosure
System No. 070337-01-14

CICS

Council of Independent
Communication Suppliers

TELFAC

Telephone Maintenance Frequency
Advisory Committee

TLCC

Taxicab and Livery
Communications Council

☆ **USMSS**

Internet: info@ita-relay.com • <http://www.ita-relay.com>

Main Office: 1110 North Glebe Road • Suite 500 • Arlington, Virginia 22201-5720 • (703) 528-5115 • Fax (703) 524-1074

Branch Office: 1270 Fairfield Road • Suite 33 • Gettysburg, Pennsylvania 17325 • (717) 334-0537 • Fax (717) 334-9602



Industrial Telecommunications Association, Inc.

**FCC Rules and Regulations, Sections 101.103 and 101.105(c) (3)
Frequency Use Analysis - Supplemental Showing**

Search Radius: 200 miles
Run Date: August 5, 1999
Applicant Name: CN Frequency (MSP), Inc.
Master Station Location: Mankato, MN
Frequency (MHz): 952/928.09375 MHz
Latitude: 44-09-50 N
Longitude: 094-03-05 W
Configuration: FXO
Antennas Height (feet): 20 Feet
Ground Elevation (feet): Varies
Effective Radiated Power (dBm): 46.0 dBm
Emission: 1K20D1D

Co-Channel User Data

08/05/99 14:48		----TRANSMITTER----			CALL	EXP	
FREQUENCY	SORT NAME	CITY	ST	DIST	SIGN	CLASS	UNTS DATE
01 952.08750	RUETER ZENOR IMP	RALSTON	IA	149.5	WNTA606	FXO	1 12/99
02 952.09375	CN FREQUENCY (MS	MANKATO	MN		PENDING	FXO	1 08/99
03 952.09375	CN FREQUENCY (MSP	NORWOOD	MN	42.3	WPNH234	FXO	1 07/08
04 952.09375	CN FREQUENCY (MSP	RANDOLPH	MN	54.4	WPNH231	FXO	1 07/08
05 952.09375	CN FREQUENCY (MSP	WATERTOWN	MN	56.1	WPNH235	FXO	1 07/08
06 952.09375	CN FREQUENCY (MSP	MINNEAPOLIS	MN	61.4	WPJF434	FXO	1 06/01
07 952.09375	CN FREQUENCY (MSP	BUFFALO	MN	73.2	WPNH236	FXO	1 07/08
08 952.09375	CN FREQUENCY (MSP	EAST BETHEL	MN	98.8	WPNH232	FXO	1 07/08
09 952.09375	CN FREQUENCY (MS	ALBANY	MN	104.5	PENDING	FXO	1 08/99
10 952.09375	CN FREQUENCY (MSP	WINONA	MN	111.5	WPND232	FXO	1 07/08
11 952.09375	CN FREQUENCY (MS	RUSK	WI	122.4	PENDING	FXO	1 07/99
12 952.09375	CN FREQUENCY (MSP	MILACA	MN	123.9	WPND228	FXO	1 07/08
13 952.09375	CN FREQUENCY (MS	DECORAH	IA	127.3	PENDING	FXO	1 07/99
14 952.09375	CN FREQUENCY (MS	SHELL LAKE	WI	147.7	PENDING	FXO	1 07/99

CICSCouncil of Independent
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READ INSTRUCTIONS CAREFULLY BEFORE PROCEEDING		FEDERAL COMMUNICATIONS COMMISSION REMITTANCE ADVICE		APPROVED BY OMB 3060-0589	
(1) LOCKBOX # 358130		PAGE NO. 1 OF 1		SPECIAL USE FCC USE ONLY	
SECTION A - PAYER INFORMATION					
(2) PAYER NAME (if paying by credit card, enter name exactly as it appears on your card) CellNet Data Systems, Inc.				(3) TOTAL AMOUNT PAID (dollars and cents) \$ 320.00	
(4) STREET ADDRESS LINE NO. 1 125 Shoreway Road					
(5) STREET ADDRESS LINE NO. 2					
(6) CITY San Carlos			(7) STATE CA	(8) ZIP CODE 94070	
(9) DAYTIME TELEPHONE NUMBER (include area code) 650.508.6000			(10) COUNTRY CODE (if not in U.S.A.)		
IF PAYER NAME AND THE APPLICANT NAME ARE DIFFERENT, COMPLETE SECTION B IF MORE THAN ONE APPLICANT, USE CONTINUATION SHEETS (FORM 159-C)					
SECTION B - APPLICANT INFORMATION					
(11) APPLICANT NAME (if paying by credit card, enter name exactly as it appears on your card) CN FREQUENCY (MSP), INC.					
(12) STREET ADDRESS LINE NO. 1 125 Shoreway Road					
(13) STREET ADDRESS LINE NO. 2					
(14) CITY San Carlos			(15) STATE CA	(16) ZIP CODE 94070	
(17) DAYTIME TELEPHONE NUMBER (include area code) 650.508.6000			(18) COUNTRY CODE (if not in U.S.A.)		
COMPLETE SECTION C FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEETS (FORM 159-C)					
SECTION C - PAYMENT INFORMATION					
(19A) FCC CALL SIGN/OTHER ID	(20A) PAYMENT TYPE CODE (PTC) P E O R	(21A) QUANTITY 1	(22A) FEE DUE FOR (PTC) IN BLOCK 20A \$ 320.00	FCC USE ONLY	
(23A) FCC CODE 1			(24A) FCC CODE 2		
(19B) FCC CALL SIGN/OTHER ID	(20B) PAYMENT TYPE CODE (PTC)	(21B) QUANTITY	(22B) FEE DUE FOR (PTC) IN BLOCK 20B \$	FCC USE ONLY	
(23B) FCC CODE 1			(24B) FCC CODE 2		
(19C) FCC CALL SIGN/OTHER ID	(20C) PAYMENT TYPE CODE (PTC)	(21C) QUANTITY	(22C) FEE DUE FOR (PTC) IN BLOCK 20C \$	FCC USE ONLY	
(23C) FCC CODE 1			(24C) FCC CODE 2		
(19D) FCC CALL SIGN/OTHER ID	(20D) PAYMENT TYPE CODE (PTC)	(21D) QUANTITY	(22D) FEE DUE FOR (PTC) IN BLOCK 20D \$	FCC USE ONLY	
(23D) FCC CODE 1			(24D) FCC CODE 2		
SECTION D - TAXPAYER INFORMATION (REQUIRED)					
(25) PAYER TIN 0 9 4 2 9 5 1 0 9 6			(26) APPLICANT TIN 0 9 4 3 2 2 9 1 5 2		
SECTION E - CERTIFICATION					
(27) CERTIFICATION STATEMENT I, N/A (Not Regulatory Fee Payment), Certify under penalty of perjury that the foregoing and supporting information (PRINT NAME) are true and correct to the best of my knowledge, information and belief. SIGNATURE					
SECTION F - CREDIT CARD PAYMENT INFORMATION					
(28) MASTERCARD	MASTERCARD/VISA ACCOUNT NUMBER:			EXPIRATION DATE:	
VISA	I hereby authorize the FCC to charge my VISA or MASTERCARD for the service(s)/authorization(s) herein described.			MONTH YEAR	
AUTHORIZED SIGNATURE			DATE		



CellNet Data Systems, Inc.
and Subsidiary Companies
125 Shoreway Road
San Carlos, CA 94070

Drawn on
Wells Fargo Texas Bank
Piano, Texas

88-963
1115

10013356

PAYMENT DATE
07/27/1999

PAY THIS AMOUNT
\$ *****320.00*

VOID 6
MONTHS
FROM
CHECK
DATE

THREE HUNDRED TWENTY USD and 00/100

PAY TO THE ORDER OF

FEDERAL COMMUNICATIONS
COMMISSION

- DC 00000

TWO SIGNATURES REQUIRED IF GREATER THAN \$25,000

⑈10013356⑈ ⑆111909634⑆ 4759627094⑈